

# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/671,348	09/29/2003		Jiin-Huey Chern Lin	LINJ3050/EM	7121
23364	7590	03/21/2006		EXAM	INER
BACON &	THOMA	AS, PLLC	SWIGER III, JAMES L		
625 SLATERS LANE FOURTH FLOOR				ART UNIT	PAPER NUMBER
ALEXAND		22314	3733		

DATE MAILED: 03/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/671,348	CHERN LIN ET AL.			
Office Action Summary	Examiner				
•	James L. Swiger	3733			
The MAILING DATE of this communicat					
Period for Reply	,.	·			
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL  - Extensions of time may be available under the provisions of 33 after SIX (6) MONTHS from the mailing date of this communic  - If NO period for reply is specified above, the maximum statuto  - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS COMMUNI 7 CFR 1.136(a). In no event, however, may a ation. ry period will apply and will expire SIX (6) MO by statute, cause the application to become A	CATION. reply be timely filed  NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed o	n 29 September 2003.				
	☐ This action is non-final.				
3) Since this application is in condition for	e this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice	under <i>Ex parte Quayle</i> , 1935 C.I	D. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-17</u> is/are pending in the app	ication.				
4a) Of the above claim(s) is/are v					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-6,8 and 14-17</u> is/are rejected	d.				
7) Claim(s) 7 and 9-13 is/are objected to.					
8) Claim(s) are subject to restriction	n and/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the E					
10)⊠ The drawing(s) filed on 29 September 2					
Applicant may not request that any objectio					
Replacement drawing sheet(s) including the					
11)☐ The oath or declaration is objected to by	the Examiner. Note the attache	ed Office Action of John F10-132.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for	foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:	have been received				
<ol> <li>Certified copies of the priority do</li> <li>Certified copies of the priority do</li> </ol>		Application No			
3. Copies of the certified copies of the					
application from the International	•				
* See the attached detailed Office action for	or a list of the certified copies no	t received.			
A44 - A 442)					
Attachment(s)  1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)			
.,	,	• •			

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)

Paper No(s)/Mail Date \_

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

5) Notice of Informal Patent Application (PTO-152)

Paper No(s)/Mail Date. \_\_\_

6) Other: \_\_

**Art Unit: 3733** 

#### **DETAILED ACTION**

#### Double Patenting

A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ..., may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer <u>cannot</u> overcome a double patenting rejection based upon 35 U.S.C. 101.

Claims 1,3,5, 9-10 and 12-13 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 2, 5, 6, 10, 11-12, and 14-15 of copending Application No. 10/393,044. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims of the current application read on the claims listed in the parent application. Claims 1,2,5 and 6 of '044 claim the same method as the independent claim 1 of the current application including preparing a cement paste, disposing a pocked (for examination purposes, the balloon may be considered a pocket), injecting paste into the balloon, applying pressure to the paste, and allowing the paste to harden. Also, the two applications claim the save device that includes a syringe tube, a mounting mechanism, two sets of wire holders, a slidable blade, an annular groove and an elastic ring.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

**Art Unit: 3733** 

## Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Osario et al. (US 6.726.691). Osario et al. disclose a method that is capable of reading on the method as claimed in the instant application. Osario et al. includes a method that involves preparing a cement paste (Col. 3, line 65, Col. 4. lines 1-5). Note that the cement would inherently be made from a powder mixture and a liquid, and even though the reference discloses a fluoroscopic agent in the mixture, it is still capable of being a 'cement paste.' Osario et al. further includes disposing a pocket (Col. 4, lines 41-52). The balloon is capable of being, and is considered a pocket, the material of which would inherently have pores, capable of transmitting a liquid. Osario et al. further disclose a hollow tube that extends into the balloon (pocket), that transmits an inflation medium, (e.g. a cement paste). (Col. 4, lines 40-62). Osario et al. disclose that the "hollow tube...extends through a balloon material" (Col. 4, lines 42-44), disclosing that the balloon/pocket is connected to an injection device. Because of the connection, pressure must be applied to move the cement paste through the device (may be considered a syringe) and the paste is therefore injected into the balloon (pocket). Also, in order for the cement to be able to move pressure must be applied. Also, for the cement to be able to move through the injection device the power/liquid ratio must be higher, or

Art Unit: 3733

increased to provide for significant fluidity for the cement to end up in the balloon/pocket. The cement would inherently harden in the spirit of the invention.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over
Osario et al. '691 in view of Hochschuler et al. (US Pub. 2002/0058947 A1). Osario et
al. disclose the claimed invention except for a method including the opening of the
pocket and separating the opened pocket from the hardened cement. Hochuler et al.
disclose a device that provides a method that reads on opening and removing a pocket
from the hardened cement area (Figs. 25-27), the method is capable of being operated
outside of the bone cavity, and after separation would be capable of removal from the
bone cavity (Par. 0077 to 0079). It would have been obvious to one having ordinary skill
in the art at the time the invention was made to perform the method of Osario et al.
including at least the opening of the pocket and the separation from the hardened
cement in view of Hochschuler et al. to better treat the area of the bone cavity in spirit of
the invention.

With regards to claims 5-6 and 8 the combination of Osario et al. and

Hochschuler et al. disclose the claimed invention except for a pocket made specifically

of a fiber cloth or a biodegradable polymer. It would have been obvious to one having

Art Unit: 3733

ordinary skill in the art at the time the invention was made to incorporate a fiber or biodegradable cloth, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416.

With regards to claims 14 and 15 Osario et al. and Hochschuler et al. disclose the claimed invention except for a workable pressure range between 0.1 Mpa and 200 Mpa. It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate said workable ranges, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Osario et al. and Hochschuler et al. as applied to claim 14 above, and further in view of Daniel et al. (US Pub 2002/0133148). The combination of Osario et al. and Hochschuler et al. disclose the claimed invention except for a pressure sensor placed in-situ. Daniel et al. disclose a pressure sensor (386) that is capable of determining the amount of pressure yielded by the cement paste when injected (par. 0164). It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device and perform the method of Osario et al. having at least a pressure sensor in view of Daniel et al. to better monitor the invention in use.

Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Osario et al. '691 in view of Liu et al. (US 6,726,691). Osario et al. disclose the claimed

Art Unit: 3733

invention except for a calcium phosphate-based cement. Liu et al. disclose a resobable bioactive calcium phosphate cement that provides an improved biocompatibility (Col. 2, lines (35-60). It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device of Osario et al. having at least a cement paste that is calcium phosphate-based in view of Liu et al. to allow for improved biocompatibility of the material in use.

# Allowable Subject Matter

Claims 7, 9-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James L. Swiger whose telephone number is 571-272-5557. The examiner can normally be reached on Monday through Friday, 8:30am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached on 571-272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Page 7

**Art Unit: 3733** 

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JLS

EDUARDÓ G. RÓBÉRT SUPERVISORY PATENT EXAMINER

3/18/2002